

# Emergency Planning

Presented by

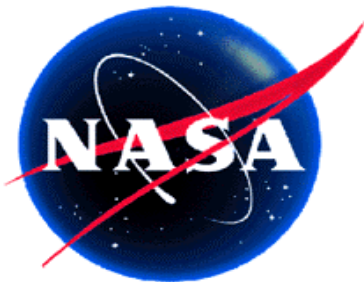
**Eric Fuller**

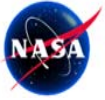
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# NASA-Jet Propulsion Laboratory

## JPL's Mission

Explore Earth & Neighboring Planets

Do what has never been done before

Apply JPL's skills to address problems of national significance

Inspire the next generation of explorers

177 Acres

230 Structures

160 occupied

Fire, Security & Emergency

Response 24-7

6500 Employees







# NASA-Jet Propulsion Laboratory







# Emergency Planning and Recovery

Why JPL has its own extensive Emergency Response Program?

**January 7, 1997 0730 hours**

My first day on the job as  
Emergency Preparedness Administrator

**Winds at 127 MPH**

200 downed trees & 50 damaged bldgs.

12 people injured



**Rescue Capabilities**

3 Firefighters on duty

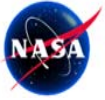
20 Security Officers

1 Ambulance staffed by firefighters



We called LA County Fire for mutual aid assistance. Their reply was “We have over 300  
**911** calls to respond to. You are on your own.”

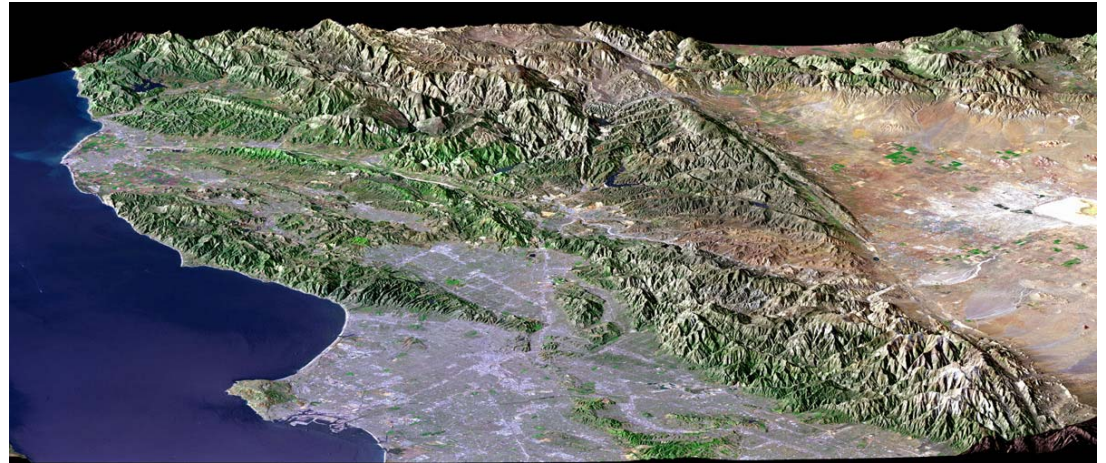
**That was our wakeup call!** We needed to be prepared to take care of ourselves.



# Disasters—R U Ready?

## 22 Million People Live in Southern California

Little Farming  
Little Drinking Water  
Few Escape Routes  
Surrounded by desert & ocean  
Most infrastructure from  
other sources.



You must be prepared to take care  
of business operations including families.  
There is not enough emergency responders and  
supplies to go around in the event of a major incident.  
Being prepared reduces: dependence, anxiety and panic.



# Five Steps to Developing Plans and Actions

Reference Document: National Response Plan (NRP)

## Awareness

### (Anticipation)

Intelligence

Risk Assessments

Vulnerability Assessments

Laws and Regulations

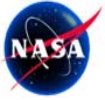
Prevention ( avoidance actions)

Preparedness (develop meaningful answers

Response (necessary actions)

Recovery ( restoration)





# Risks

## Define Critical Assets and Functions

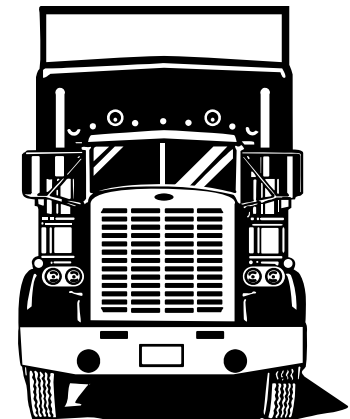
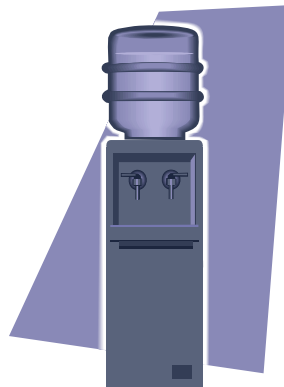
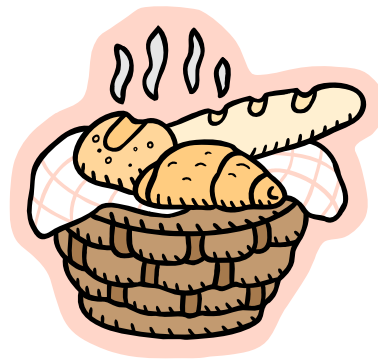
**Water**

**Food**

**Shelter**

**Transportation**

**Communications**







# Vulnerabilities

Earthquake

Fire

Weather

Labor Disputes-

Transportation

Riots

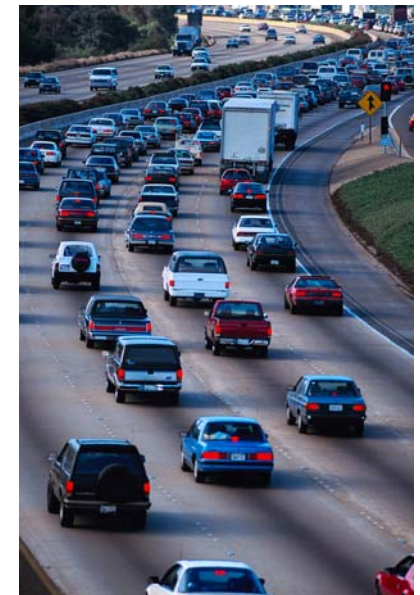
Flood

Drought

Traffic

Terrorism

Dense population/Disease







# Five Steps to Developing Plans and Actions

Awareness

## **Prevention**

**(Avoidance Actions)**

Intervene

Mitigate

Protect Lives & Property

Countermeasures

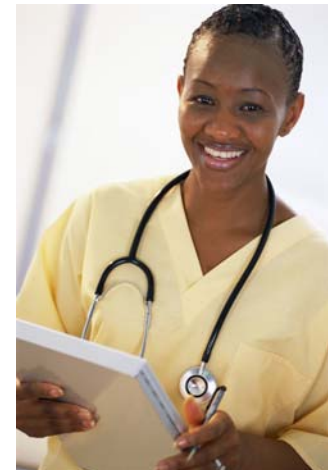
Surveillance

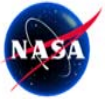
Health

Preparedness (develop meaningful answers

Response (necessary actions)

Recovery ( restoration)





# Five Steps to Developing Plans and Actions

Awareness (Anticipation)

Prevention (Avoidance Actions)

**Preparedness**

**(Develop meaningful answers)**

Planning

Training

Equipping

Inventory Resources

Remedy Shortfalls

Mutual Aid Agreements

Response (Necessary Actions)

Recovery (Restoration)





# Five Steps to Developing Plans and Actions

Awareness (anticipation)

Prevention (avoidance actions)

Preparedness (develop meaningful answers)

## **Response**

### **(Necessary Actions)**

Security

Fire Department

Ambulance

Hazmat

Medical

Enforcement

Urban Search and Rescue  
(USAR)

Recovery (Restoration)







# Five Steps to Developing Plans and Actions

Awareness (anticipation)

Prevention (avoidance actions)

Preparedness (develop meaningful answers)

Response (Necessary Actions)

## Recovery

### (Restoration)

Evaluation

Plans

Reconstruction

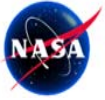
Coordination

Execution

Prosecution

Lessons Learned





# JPL Rescue Capabilities 2005

**We were a rescue burden but now we are a community asset.**

New security/Fire Department Building

Comprehensive Plans

**911** Call/Dispatch Center

6 Firefighters per Shift

24 Hazmat Specialists

100 USAR Team

Members

27 Security Officers





# JPL Rescue Capabilities 2005

**911** Call/Dispatch Center  
1 Fire Engine  
1 HazMat/Heavy Rescue  
1-42 ft. USAR Trailer  
2 Ambulances



Food, Water, Emergency Supplies for 4000 People, Medical supplies for 500 Injured People